UTILITY PATENT APPLICATION

Attorney Docket No. 22221/1190 (RU-339)

DOM: A BIA	NR STORT A T	First	inventor	O'Donne	ll et al.		_		
TRANSMITTAL			NILICI EIC	ACID ENC	ODING	BACILI	LIS		
(Only for new nonprovisional applications under 37 CFR 1.53(b))		Title	NUCLEIC	ACID ENCODING BACILLUS THERMOPHILUS BETA					
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•		POLYMERASE SUBUNIT ress Mail Label No. EL983811896US							
		Expr	ess Mail Label No.						
APPLICA	ATION ELEMENTS			Mail Stop Pa					
			ADDRESS TO: Commissioner for Patents P.O. Box 1450						
See MPEP chapter 600 concerning utility patent application contents.		1				2212 1/50	}		
				Alexandria,					
1. E Fee Transmittal Form (e.g., PTO/SB/17)			7. CD-ROM			ge table or	1		
(Submit an original and a duplicate for fee processing)			Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission						
2. Applicant claims small entity status.			(if applicable,	A Submissio	···				
See 37 CFR 1.27.			a. Computer Readable Form (CRF)						
3. Specification [Total Pages 124 pages]			b. Specification Sequence Listing on:						
(preferred arrangement set forth below) - Descriptive title of the invention			i. D CD-ROM or CD-R (2 copies; or						
- Cross Reference to	Related Applications (if applicable)		ii. E paper (167 pages)						
 Statement Regardin 	g Fed sponsored R & D (if applicable)								
 Reference to sequer 	nce listing, a table,		c. Request for Transfer of Computer Readable Record and Statement in Accordance with 37 CFR 1.821(e)						
	ram listing appendix (if applicable)		and Su	itement in Acce	Muldice W.	ar 57 Of IC	.021(0)		
- Background of the			ACCOMPANYING APPLICATION PARTS						
- Brief Summary of t	f the Drawings (if filed)		ACCOMPANTATO AT Electrical						
- Detailed Description			9. 🛘 Assignn	ent Papers (co	ver sheet d	& document((s))		
- Claim(s)			10. 37 CFR 3.73(b) Statement D Power of						
- Abstract of the Disc	closure		(when th	ere is an assign	nee)	Attorn	ey		
4. E Drawing(s) (35 U.S.C.	113) [Total Sheets 82 sheets]		11. English	Translation Do	cument (i)	(applicable)			
Oath or Declaration	[Total Pages 12 pages]		12. 🗷 Informa	tion Disclosure		☐ Copies	s of IDS		
a. Newly executed (or	riginal or copy)		Stateme	nt (IDS)/PTO-1	449	Citatio	ons		
b. Unsigned			13. Preliminary Amendment						
c. E Copy from a prior a	application (37 CFR 1.63(d))		14. Return Receipt Postcard (MPEP 503)						
(for continuation/d		(Should be specifically itemized)							
i. D DELETION OF INVENTOR(S)			15. Certified Copy of Priority Document(s)						
Signed statement attached deleting inventor(s)			(if foreign priority is claimed)						
named in the prior application, see 37 CFR			16. Nonpublication request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form						
1.63(d)(2) and 1.33(b)			122(b)(2)(B)(i). Appli	cant must	attach form	1		
6. D Application Data Sheet. See 37 CFR 1.76			PTO/SB/35 or its equivalent.						
			17. Other:				. 1		
	ICATION, check appropriate box, and		the requisite inform	nation below a	id in a pre	liminary am	endment.		
18. If a CONTINUING APPL or in an Application Data Sheet	JCATION, check appropriate box, and	suppiy	ine requisite injorn	union below ur	u in a pro	timinally and			
	Divisional Continuation-in-part (CIF	יו	of prior applica	tion No.: 09/716	,964				
E Continuation	_		• • •				ľ		
Prior application information:	Examiner: R. Hutson	-	/Art Unit: 1652						
For CONTINUATION OR DIVIS	SIONAL APPS only: The entire disclosure	of the p	rior application, fro	m which an oath	or declara	tion is supplie	ed under		
Don Ch. to a such done of the	dicalocura of the accompanying continuati	on or d	ivisional application	and is nereby in	corporated	by reference.	. The		
incorporation can only be relied u	pon when a portion has been inadvertently			application par					
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	Peabody LLP								
 	n Square, P.O. Box 31051					<u>-</u>			
Address	ster State	NY		Zip Code	14	603-1051			
City Roche Country USA	Telephone		263-1128	Far		85) 263-1600	0		
Country USA	Telephone				- 				
Name (Print/Type) Edwin V. Merkel Registration No. (Attorney/Agent) 40,087									
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Signature	0.7 (0			Date	Sof	mber 2	5 2002		
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Complete if Known FEE TRANSMITTAL Application Number To be Assigned Filing Date Herewith **FOR FY 2003** First Named Inventor O'Donnell et al. Patent fees are subject to annual revision. Examiner Name R. Hutson Applicant claims small entity status. See 37 CFR 1.27 Art Unit 1652 TOTAL AMOUNT OF PAYMENT Attorney Docket No. 22221/1190 (RU 339)

METHOD OF PAYMENT (check all that apply)									
Check Condit Cond		FEE CALCULATION (continued)							
Check Credit Card Money Other None Order Deposit Account:									
Deposit / Count.		ge Entity		I Entity					
Account Number 14-1138	Fee Code	Fee (\$)	Fee Code	Fee (\$)	- -	Fee Descr	ription		
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	1052	50	2052	25	Surcharge -	late provisiona	I filing fee or cover	<u> </u>	
Deposit Account Nixon Peabody LLP	1053	130	1053	130	sneet	h specification			
Name Name	1812	2,520	1812	2,520					
The Commissioner is authorized to: (check all that apply)		920*	1804	920*	For filing a request for ex parte reexamination Requesting publication of SIR prior to Examiner				
Charge fee(s) indicated below Credit any overpayments		1,840*	1905	1.040*	action			·	
Charge any additional fee(s)	1805	1,040	1805	1,840*	Requesting paction	publication of S	SIR after Examiner		
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to the above-identified deposit account.		410	2252	205	Extension for reply within second month				
FEE CALCULATION	1253	930	2253	465	Extension for reply within third month			 	
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1002 330 2002 165 Design filing fee	1452	110	2452	55			use proceeding		
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1004 750 2004 375 Reissue filing fee	1501	1,300	2501	650		vive – unintenti	onal		
1005 160 2005 80 Provisional filing fee	1502	470	2502	235	Utility issue for Design issue for				
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	1807	50	1807	50					
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1806	180	1806	180	Submission of	under 37 CFR	1.17(q)		
Fee from Extra Claims below Fee Paid	8021	40	8021	40	Recording each	h patent assigni	ment per property	 	
Total Claims 9 -20** = X = 0		750	2809	375	(times number of properties)				
Independent 2 -3** = X = 0	1010				Filing a submission after final rejection (37 CFR 1.129(a))				
Claims Multiple Deposits to	1810	750	2810	375	For each additi (37 CFR 1.129	onal invention	to be examined	<u> </u>	
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ree Fee Fee <u>Fee Description</u> Code (\$)		700	1802	900	application	edited examina	ation of a design		
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original patent	CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]								
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**or number previously paid, if greater, For Reissues, see above	postage as first class mail in an envelope addressed to: Mail Stop Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450								
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1	Trademark Office at (703)								
· 1	Date					Simple			
	_					Signature			
Typed or printed name UBMITTED BY									
Edwin V. M. 1.1. Complete (if applicable)									
	Registration Attorney/	On No.	40,	087			85) 263-1128		
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DOCKET NO.:

22221/1190 (RU 339)

APPLICANTS:

Michael E. O'Donnell, Alexander Yuzhakov, Olga Yurieva,

David Jeruzalmi, Irina Bruck, and John Kuriyan

TITLE:

NUCLEIC ACID ENCODING BACILLUS

STEAROTHERMOPHILUS BETA POLYMERASE

SUBUNIT

Certificate is attached to the Utility Patent Application Transmittal Letter (1 page) (in duplicate) and Fee Transmittal (1 page) (in duplicate) of the above-named application.

EXPRESS MAIL NUMBER:

EL983811896US

DATE OF DEPOSIT:

September 25, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

> Shawn A. Lockett (Typed or printed name of person mailing

paper or fee)

DOCKET NO.:

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APPLICANTS:

Michael E. O'Donnell, Alexander Yuzhakov, Olga Yurieva,

David Jeruzalmi, Irina Bruck, and John Kuriyan

TITLE:

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STEAROTHERMOPHILUS BETA POLYMERASE

SUBUNIT

Certificate is attached to the Patent Application including specification, claims and abstract (124 pages) of the above-named application.

EXPRESS MAIL NUMBER:

EL983811896US

DATE OF DEPOSIT:

September 25, 2003

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TITLE:

NUCLEIC ACID ENCODING BACILLUS

STEAROTHERMOPHILUS BETA POLYMERASE

SUBUNIT

Certificate is attached to the copy of the SIGNED Combined Declaration and Power of Attorney Form (12 pages) as filed in the prior application of the above-named application.

EXPRESS MAIL NUMBER:

EL983811896US

DATE OF DEPOSIT:

September 25, 2003

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TITLE:

NUCLEIC ACID ENCODING BACILLUS

STEAROTHERMOPHILUS BETA POLYMERASE

SUBUNIT

Certificate is attached to the copy of the **Drawings (82 sheets)** as filed in the prior application of the above-named application.

EXPRESS MAIL NUMBER:

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Shawn A. Lockett
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paper or ree)

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TITLE:

NUCLEIC ACID ENCODING BACILLUS

STEAROTHERMOPHILUS BETA POLYMERASE

SUBUNIT

Certificate is attached to the Information Disclosure Statement (1 page) and PTO-1449 (6 page) (in duplicate) with 65 references (not attached) of the above-named application.

EXPRESS MAIL NUMBER:

EL983811896US

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September 25, 2003

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for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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SUBUNIT

Certificate is attached to the Request for Transfer of Computer Readable Record and Statement in Accordance With 37 CFR 1.821(e) (1 page) of the above-named application and a copy of the Sequence Listing (167 pages) as filed in the prior application of the above-name application.

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Shawn A. Lockett

(Typed or printed name of person mailing paper or fee)